

Helios Thermal Binoculars



The Helios line is the latest and most technologically advanced family of thermal imaging binoculars on the market today. Binocular design is better for sustained viewing periods and improved depth perception. The Helios product line is based on the latest FLIR Tau 2 VOX microbolometer core, and includes a variety of different models, each optimizing performance, price, and state-of-the-art technology for a variety of uses and mission applications. The Helios is a solid state, uncooled, long-wave

infrared, magnified, dedicated handheld thermal imager intended for day and nighttime missions. The 24/7 mission capability is just one of the many strengths this product line has to offer. Thermal imaging technology also allows you to detect targets by cutting through snow, dust, smoke, fog, haze, and other atmospheric obscurants. Unlike the use of laser targeting or near infrared illumination to augment night vision equipment, Helios thermal imagers are extremely difficult to detect with other devices, as they emit no visible light or RF energy. We are convinced that the Helios thermal imaging bi-ocular represents one of the most sophisticated devices on the market today, due to its superior price-to-performance value.

Features: User selectable NTSC or PAL format; digital E-Zoom; White Hot/ Black Hot/ Rainbow/ various colour modes; video output; waterproof; CNC machined aircraft-aluminum alloy body;

Standard accessories: Wireless remote control with adaptor; soft carrying case; batteries; video cable

Optional accessories: Extended battery pack; video recorder; hard waterproof carrying/storage case; OTIS lens swabs, lens cleaning kit, optics cleaning system

Magnification NTSC, x	From 1.5 to 7.2
Magnification PAL, x	From 1.8 to 8.6
Type of focal plane array	FLIR Tau 2
Pixel array format	Up to 640x512
Pixel size, μm	17 or 25
Refresh rate, Hz	From 9 to 60
Resolution, mrad	From 0.23 to 0.60
Display type	AMOLED SVGA 060
Exit pupil diameter, mm	10
Range of focus, m	5 or 10 to infinity
Field of view - $^{\circ}$ (X / Y)	From 3.0/ 2.2 to 14.8/ 11.8
Objective lens type	Germanium
Objective focal length, mm	42 or 75
Objective F-number	1.1 or 1.3
Eye relief, mm	45
Digital zoom, x	1 or 2 or 4
Power supply	2xCR123A
Operating temperature, $^{\circ}\text{C}$	-40 to +50
Storage temperature, $^{\circ}\text{C}$	-50 to +70
Battery life at 20 $^{\circ}\text{C}$, Hrs	Up to 4
Dimensions, mm	257 or 277x110x75
Weight, kg	0.8 or 0.9
Warranty, Years	3 (10 on detector)